

AMENDMENTS TO THE CLAIMS

LISTING OF CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Claim 1 (currently amended): A microcomputer having a built-in nonvolatile memory including:

a communication circuit for receiving a test program for a nonvolatile memory from an external check system;

a RAM on which said test program is run; and

a boot ROM comprising a control program for, upon receiving a test command issued by the external check system, enabling said receiving of said test program from said external check system through said communication circuit ~~in response to receiving a test command issued by the external check system and~~ running of said test program on said RAM.

Claim 2 (canceled)

Claim 3 (currently amended): A microcomputer having a built-in nonvolatile memory including:

a nonvolatile memory;

a boot ROM;

a RAM;

a CPU for running a program stored in said boot ROM and RAM; and

a communication circuit for controlling a communication with a check system,

said boot ROM having stored a control program for jobs of:

upon receiving a test command issued from said check system, receiving a test program for said nonvolatile memory from said check system to be stored in said RAM ~~at a test command issued from said check system;~~

running said test program; and

sending a test result to said check system.

Claim 4 (currently amended): A check system of a microcomputer having a built-in nonvolatile memory furnished with:

at least one external communication device connected to said microcomputer in such a manner so as to allow a communication in a one-to-one correspondence,

each external communication device including,

a storage device having stored a test program for a built-in nonvolatile memory in said microcomputer, and

a communication microcomputer for sending said test program to said microcomputer,

wherein said microcomputer includes a boot ROM comprising a control program for, upon receiving a test command issued by the corresponding external communication device, enabling receiving of said test program from said corresponding external communication device through a communication circuit ~~in response to receiving a test command issued by the corresponding external communication device~~ and running of the test program on a RAM.

Claim 5 (original): The check system of Claim 4, further furnished with a control computer, connected to a plurality of external communication devices, for intensively controlling a check-up of a plurality of microcomputers each having a built-in nonvolatile memory and connected to said plurality of external communication devices, respectively.

Claim 6 (currently amended): A check system of a microcomputer having a built-in nonvolatile memory furnished with an external communication device including:

a storage device having stored a test program for said microcomputer having a built-in nonvolatile memory;

a communication control circuit for controlling a communication with said microcomputer; and

a communication microcomputer for sending said test program to said microcomputer when checking the built-in nonvolatile memory therein,

wherein said microcomputer includes a boot ROM comprising a control program for, upon receiving a test command issued by the external communication device, enabling receiving of said test program from said external communication device through a communication circuit ~~in response to receiving a test command issued by the external communication device~~ and running of the test program on a RAM.

Claim 7 (original): The check system of Claim 6, further furnished with a control computer, connected to a plurality of external communication devices, for intensively controlling a check-up of a plurality of microcomputers each having a built-in nonvolatile memory and connected to said plurality of external communication devices, respectively.

Claim 8 (currently amended): An IC card packing a microcomputer having a built-in nonvolatile memory including:

a communication circuit for receiving a test program for a nonvolatile memory from an external check system;

a RAM on which said test program is run, and

a boot ROM comprising a control program for, upon receiving a test command issued by the external check system, enabling said receiving of said test program from said external check system through said communication circuit ~~in response to receiving a test command issued by the external check system and~~ running of said test program on said RAM.

Claim 9 (canceled)

Claim 10 (currently amended): An IC card packing a microcomputer having a built-in nonvolatile memory including:

a nonvolatile memory;

a boot ROM;

a RAM;

a CPU for running a program stored in said boot ROM and RAM; and

a communication circuit for controlling a communication with a check system,

said boot ROM having stored a control program for jobs of:

upon receiving a test command issued from said check system,  
receiving a test program for said nonvolatile memory from said check  
system to be stored in said RAM ~~in response to receiving a test command~~  
~~issued from said check system;~~  
running said test program; and  
sending a test result to said check system.

Claim 11 (currently amended): A check system of an IC card packing a  
microcomputer having a built-in nonvolatile memory furnished with:

at least one external communication device connected to said  
microcomputer packed in said IC card in such a manner so as to allow a  
communication in a one-to-one correspondence,

each external communication device including,

a storage device having stored a test program for a built-in nonvolatile  
memory in said microcomputer, and

a communication microcomputer for sending said test program to  
said IC card,

wherein said microcomputer includes a boot ROM comprising a control  
program for, upon receiving a test command issued by the corresponding external  
communication device, enabling receiving of said test program from said

corresponding external communication device through a communication circuit ~~in~~  
~~response to receiving a test command issued by the corresponding external~~  
~~communication device and running of the test program on a RAM.~~

Claim 12 (original): The check system of Claim 11, further furnished with a control computer, connected to a plurality of external communication devices, for intensively controlling a check-up of a plurality of IC cards connected to said plurality of external communication devices, respectively.

Claim 13 (currently amended): A check system of an IC card packing a microcomputer having a built-in nonvolatile memory furnished with an external communication device including:

a storage device having stored a test program for a built-in nonvolatile memory in said microcomputer packed in said IC card;

a communication control circuit for controlling a communication with said IC card; and

a communication microcomputer for sending said test program to said IC card when checking said built-in nonvolatile memory,

wherein said microcomputer includes a boot ROM comprising a control program for, upon receiving a test command issued by the external communication device, enabling receiving of said test program from said external

communication device through a communication circuit ~~in response to receiving a test command issued by the external communication device~~ and running of the test program on a RAM.

Claim 14 (original): The check system of Claim 13, further furnished with a control computer, connected to a plurality of external communication devices, for intensively controlling a check-up of a plurality of IC cards connected to said plurality of external communication devices, respectively.

Claim 15 (currently amended): The microcomputer of Claim 1, further comprising a plurality of microcomputers each having a built-in nonvolatile memory, and wherein said check system comprises a control computer connected to a plurality of external communication devices, for intensively controlling a check-up of said plurality of microcomputers each connected to said plurality of external communication devices, respectively, and

each of said plurality of microcomputers including a boot ROM comprising a control program for, upon receiving a test command issued by the control computer, enabling receiving of said test program from said control computer through a communication circuit ~~in response to receiving a test command issued by the control computer~~ and running of said test program on said RAM.



Claim 16 (currently amended): The microcomputer of Claim 3, further comprising a plurality of microcomputers having a built-in nonvolatile memory, and wherein said check system comprises a control computer connected to a plurality of external communication devices, for intensively controlling a check-up of said plurality of said microcomputers each connected to said plurality of external communication devices, respectively, and

each of said plurality of microcomputers including a boot ROM having stored a control program for jobs of upon receiving a test command issued from said control computer, receiving said test program for said nonvolatile memory from said check system to be stored in said RAM ~~in response to a test command issued from said control computer~~.

Claim 17 (currently amended): The check system of claim 5, wherein each of said plurality of microcomputers including a boot ROM comprising a control program for, upon receiving a test command issued by said control computer, enabling receiving of said test program from said control computer through a communication circuit ~~in response to receiving a test command issued by said control computer~~ and running of said test program on said RAM.

Claim 18 (currently amended): The check system of claim 7, wherein each of said plurality of microcomputers including a boot ROM comprising a control program for, upon receiving a test command issued by said control computer, enabling receiving of said test program from said control computer through a communication circuit ~~in response to receiving a test command issued by said control computer~~ and running of said test program on said RAM.